**-Conjugated 1D and 2D Polymers**

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*Figure 1:*

AEE-active poly(*para*-phenylene-diphenylvinylene) derivative with solid state photoluminescence quantum yields near unity

The lecture presents some recent, synthesis-driven approaches from our synthetic polymer chemistry group on control and tuning of optical, electronic and morphological properties of -conjugated (co)polymers. The examples involve: (i) novel conjugated ladder polymers,1,2 (ii) conjugated polymers with aggregation-enhanced emission (AEE) properties (see Figure 1),3,4 and (iii) conjugated polyelectrolytes (CPEs).5-11

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